

WHAT IS CLAIMED IS:

1 1. A docking station for a cellular telephone, the docking station comprising:
 2 a support structure including a first surface on which is disposed a display device
 3 and a cradle;
 4 a station power source;
 5 charging means coupled to the station power source for charging the station power
 6 source;
 7 a first connector assembly for coupling the station power source to an external
 8 source of electrical energy;
 9 a second connector assembly coupled to the charging means for selectively
 10 coupling the charging means to the cellular telephone for charging the
 11 cellular telephone; and
 12 a switch for selectively coupling the station power source to the cellular telephone
 13 when the cellular telephone is positioned in the docking station.

1 2. A docking station for a wireless communication device, the docking
 2 station comprising:
 3 a docking housing having a planar first surface;
 4 a display device mounted on the planar surface;
 5 cradle means for supporting the wireless communication device, the cradle means
 6 disposed on the docking housing;
 7 a connector for electrically coupling the docking station to the wireless
 8 communication device;
 9 an internal voltage source;
 10 a charging circuit for charging a voltage source; and
 11 a switch for selectively coupling the charging circuit to the internal voltage
 12 source.

1 3. A docking station for a wireless communication device as defined in
 2 Claim 2, wherein the connector comprises a first terminal coupled to the internal voltage
 3 source.

1 4. A docking station for a wireless communication device as defined in
2 Claim 3, wherein the connector comprises a second terminal selectively coupled to the
3 charging circuit through the switch.

1 5. A docking station for a wireless communication device as defined in
2 Claim 4, wherein the connector comprises a third terminal coupled to GND.

1 6. A docking station for a wireless communication device as defined in
2 Claim 5, wherein the first terminal is for selective coupling to a B⁺ bus in the wireless
3 communication device and the second terminal is for coupling to a wireless
4 communication device voltage source.

1 7. A docking station for a wireless communication device as defined in
2 Claim 4, wherein the switch has a pole coupled to the charging circuit and has a first
3 terminal selectively coupled to the first terminal of the connector.

1 8. A docking station for a wireless communications device as defined in
2 Claim 7, wherein the switch has second terminal selectively coupled to the second
3 terminal of the connector.

1 9. A docking station for a wireless communication device as defined in
2 Claim 8, wherein the first terminal is for selective coupling to a B⁺ bus in the wireless
3 communication device and the second terminal is for coupling to a wireless
4 communication device voltage source.

1 10. A docking station for a wireless communication device as defined in
2 Claim 8, wherein when a wireless communication device is positioned in the docking
3 station, the switch operates to couple the charging circuit to the second terminal of the
4 connector so as to enable the charging circuit to charge the wireless communication
5 device voltage source.

1 11. A docking station for a wireless communication device as defined in
2 Claim 8, wherein when a wireless communication device is not positioned in the docking

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1 17. A docking station for a wireless communication device as defined in
2 Claim 16, further comprising a video interface coupled to the display device and operable
3 to transform a video signal generated by the wireless communication device into a video
4 signal that is compatible with the display device.

18. In a docking station for a wireless communications device, an apparatus for selectively supplying power to the communications device, the apparatus comprising:

- a connector for electrically coupling the docking station to the communications device, the connector having at least first and second terminals;
- a switch having a pole, a first terminal, and a second terminal, the switch operable in response to status information indicating whether a communications device is docked at the docking station;
- a charging circuit coupled to the pole of the switch;
- a station power source coupled to the first terminal of the switch; and
- means for determining whether a communication device is docked at the station and for providing status information as a result of the determination.

19. An apparatus as defined in Claim 18, wherein the first terminal of the switch is electrically coupled to the first terminal of the connector and the second terminal of the switch is electrically connected to the second terminal of the connector.

20. An apparatus as defined in Claim 19, wherein the switch operates to connect the pole terminal to the first terminal in response to status information indicating that a communications device is not docked at the docking station, whereby the charging circuit then charges the station power source.

21. An apparatus as defined in Claim 19, wherein the second terminal of the connector is configured to be coupled to the wireless communications device power source when the device is docked and wherein the switch operates to connect the pole terminal to the second terminal of the switch in response to status information indication that a wireless communications device is docked at the docking station, whereby the charging circuit then charges the wireless communications device power source.

22. A method of enhancing the capabilities of a wireless communications device for information acquisition applications, the method comprising the steps:

- mounting the wireless communications device on a docking station that comprises:
 - (a) a cradle for the wireless communications device,

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6 (b) a display device,
 7 (c) a connector for effecting an electrical interface to the wireless
 8 communication device,
 9 (d) a station power source,
 10 (e) a charging circuit, and
 11 (f) a switch operable in response to information indicating whether or
 12 not a wireless communications device is docked at the docking station;
 13 coupling a video output from the wireless communications device to the display
 14 device;
 15 causing the station power source to be coupled to the wireless communications
 16 device; and
 17 causing, in response to information that the wireless communication device is
 18 docked at the station, the charging circuit to charge the wireless
 19 communications device.

1 23. A method as defined in Claim 22, wherein, in response to information
 2 indicating that a wireless communications device is docked at the docking station, the
 3 switch couples the charging circuit to a voltage source included with the wireless
 4 communications device, and in response to information indicating that a wireless
 5 communications device is not docked at the station, the switch couples the charging
 6 circuit to the station power source.

1 24. An assembly for docking a wireless communication device (WCD) so as
 2 enhance the capabilities of the device, the assembly comprising:
 3 a housing having a receptacle for the WCD;
 4 an enhanced display device;
 5 an internal chargeable power source;
 6 a charging circuit;
 7 switch means, responsive to a predetermined status of the assembly, for
 8 selectively coupling the charging circuit to the internal chargeable power
 9 source;
 10 detachable means for coupling the charging circuit to a source of electrical power;

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11 a video interface circuit for coupling the video output of the WCD to the enhanced
12 display device;
13 a connector for electrically coupling the docking station to the WCD; and
14 a support for the housing.

1 25. An assembly as defined in Claim 24, wherein the enhanced display device
2 is mounted on a planar surface of the housing.

1 26. An assembly as defined in Claim 25, wherein the support for the housing
2 is a stand having a base portion and an oblique back portion.

1 27. An assembly as defined in Claim 25, wherein the support is rotatably
2 attached to the housing.

1 28. An assembly as defined in Claim 25, wherein the detachable means
2 includes a line cord and a plug for insertion into an AC outlet.

1 29. An assembly as defined in Claim 24, wherein the switch is operable in a
2 response to status information to selectively couple the charging circuit to the station
3 power source when a WCD is not docked and to selectively couple the charging circuit to
4 a power source of the WCD when a WCD is docked.

1 30. An assembly as defined in Claim 29, further comprising a connector for
2 effecting an electrical connection between the assembly and the WCD, the connector
3 comprising a first contact coupled to the internal chargeable power source and a second
4 contact coupled to the switch means.

1 31. A method for using a wireless communication device, the method
2 comprising:

3 mounting the wireless communications device on a docking station that

4 comprises:

5 (g) a cradle for the wireless communications device,

6 (h) a display device,

7 (i) a connector for effecting an electrical interface to the wireless
8 communication device,

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- 9 (j) a station power source,
 10 (k) a charging circuit, and
 11 (l) a switch operable in response to information indicating whether or
 12 not a wireless communications device is docked at the docking station;
 13 causing the station power source to be coupled to the wireless communications
 14 device; and
 15 causing, in response to information that the wireless communication device is
 16 docked at the station, the charging circuit to charge the wireless
 17 communications device.

1 32. A method as defined in Claim 31, further comprising:
 2 using the docking station in a portable mode; and
 3 continuing to cause the station power source to be coupled to the wireless
 4 communication device and to cause the charging circuit to charge the
 5 wireless communication device.

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